9/02

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     FILE 'CAPLUS, WPIDS, CABA, AGRICOLA' ENTERED AT 18:08:33 ON 19 SEP 2002
L1             1 S (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (PEARL LUSTER OR P
L2            11 S (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (TITAN? (3A) MICA)
L3            10 S L2 NOT L1
L4             9 DUP REM L3 (1 DUPLICATE REMOVED)

     FILE 'STNGUIDE' ENTERED AT 18:16:51 ON 19 SEP 2002

=> d que l1; d que l4
L1             1 SEA (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (PEARL LUSTER
                 OR PEARL LUSTRE OR PEARLLUST## OR (PEARLESCENT (3A) PIGMENT#)
                 OR IRIODIN OR MEARLIN OR MAGNAPEARL OR MEARLITE)


L1             1 SEA (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (PEARL LUSTER
                 OR PEARL LUSTRE OR PEARLLUST## OR (PEARLESCENT (3A) PIGMENT#)
                 OR IRIODIN OR MEARLIN OR MAGNAPEARL OR MEARLITE)
L2            11 SEA (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (TITAN? (3A)
                 MICA)
L3            10 SEA L2 NOT L1
L4             9 DUP REM L3 (1 DUPLICATE REMOVED)

=>
```

↳ Look at L7 → Titan? (6a) mica used. (slightly broader)

↳ No new hits that I didn't know already

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 1988:632369 CAPLUS
DN 109:232369
TI Transparent insect-repellent packaging materials for grain
IN Iwane, Nobuo; Miyazaki, Toshimasa
PA Teikoku Kako Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63074449	A2	19880404	JP 1986-221215	19860918
	JP 07089862	B4	19951004		

AB Title materials with (partial) transparency comprise polymer films and 0.1-20% pearlescent pigments, e. g. titanized mica, basic Pb carbonate, BiCl3, etc. Polished rice was packaged with 2% TP-690 (titanized mica)-contg. polyethylene film, heat-sealed, and stored at room temp. for 3 mo in summer. No rice weevils (Sitophilus zeamais or Sitophilus oryzae) were obsd., vs. a large no. of rice weevils 1 wk after packaging with a similar film contg. no TP-690.

=> s (insect# or pest# or aphid# or thrip#) (l) (titan? (3a) mica)
L2 11 (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (TITAN? (3A) MICA)

=> s l2 not l1
L3 10 L2 NOT L1

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 9 DUP REM L3 (1 DUPLICATE REMOVED)

=> d 1-9 bib ab

L4 ANSWER 1 OF 9 WPIDS (C) 2002 THOMSON DERWENT
AN 2002-375908 [41] WPIDS
DNC C2002-106416
TI Manufacture of insect repellent film, comprises mixing polyolefin resin, with encapsulated insect repellent and inorganic filler, casting by inflation or tee-die to form original plate sheet and lengthening biaxially.
DC A97 C03
IN HONG, J S; JUNG, W B; LEE, S U; YANG, G S
PA (SANS-N) SANSEI SOGO KAGAKU KK; (SMSU) SAMSUNG GEN CHEM CO LTD
CYC 2
PI JP 2002029904 A 20020129 (200241)* 5p
KR 2002002646 A 20020110 (200247)
ADT JP 2002029904 A JP 2001-198558 20010629; KR 2002002646 A KR 2000-36874 20000630
PRAI KR 2000-36874 20000630
AB JP2002029904 A UPAB: 20020701
NOVELTY - A capsule containing (wt.pts.) polyolefin resin (20-80), insect repellent (20-80) and inorganic filler (0.01-10), are mixed and a negative plate sheet is produced by inflation or tee-die casting method. The sheet is uniaxially or biaxially lengthened to a total area draw ratio of 1.5-3 with a water vapor permeability.
USE - The method is used for manufacturing insect repellent film used for controlling insect pest e.g. Coleoptera, Diptera, Lepidoptera or a fly and mosquito in trees.
ADVANTAGE - The method enables to manufacture insect repellent film having higher long life. The insect repellent is gradually released from

the film for a prolonged time. The film has excellent water vapor permeability and insect killing effect.
Dwg.0/0

L4 ANSWER 2 OF 9 WPIDS (C) 2002 THOMSON DERWENT
AN 1999-385723 [32] WPIDS
DNC C1999-113560
TI Composition for protecting growing plants from insects.
DC C07 P14
IN SANDER, R
PA (LIME-N) LIMERICK LTD; (MERE) MERCK PATENT GMBH
CYC 85
PI WO 9930563 A1 19990624 (199932)* EN 17p
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
ZA 9811457 A 19990831 (199939) 17p
AU 9922690 A 19990705 (199948)
EP 1041886 A1 20001011 (200052) EN
R: DE ES FR GR IT PT
BR 9813746 A 20001017 (200056)
CN 1282217 A 20010131 (200131)
KR 2001033175 A 20010425 (200164)
ADT WO 9930563 A1 WO 1998-EP8004 19981209; ZA 9811457 A ZA 1998-11457 19981214; AU 9922690 A AU 1999-22690 19981209; EP 1041886 A1 EP 1998-966268 19981209, WO 1998-EP8004 19981209; BR 9813746 A BR 1998-13746 19981209, WO 1998-EP8004 19981209; CN 1282217 A CN 1998-812231 19981209; KR 2001033175 A KR 2000-706557 20000615
FDT AU 9922690 A Based on WO 9930563; EP 1041886 A1 Based on WO 9930563; BR 9813746 A Based on WO 9930563
PRAI EP 1997-122216 19971217
AB WO 9930563 A UPAB: 19990813
NOVELTY - Composition comprising reflective particles eg. mica coated with TiO2 for protecting growing plants from **insects** and **insect**-transmitted plant viruses.
DETAILED DESCRIPTION - A composition for protecting growing plants from **insects** and from **insect**-transmitted plant viruses comprises reflective particles of at least one substance, together with at least one diluent, carrier or adjuvant, provided that the substance is not solely uncoated aluminium.
ACTIVITY - **Insect** Repellent. Plates were placed along one side of a cotton field. The plates were sprayed with 1% aqueous suspensions (containing 0.1% Shatach 90 surfactant) of **mica** coated with **titanium** dioxide (M.T.O.). Control plates were not sprayed. Each spraying was followed by spraying with a transparent glue Rimiput' for adhering leaf-hoppers landing on the plates. M.T.O. was 91.73% effective in reducing the number of captured leaf-hoppers, compared with control.
USE - The composition is especially applicable to repelling **aphids**, leafhoppers, Lariomyza Bryoniae, white flies and **thrips**, from growing plants, thus protecting them from these **insects** as well as from plant viruses transmitted by these **insects**.
ADVANTAGE - **Insects** can be effectively repelled from growing plants in a manner which is considerably more economic that prior art methods of using reflective mulching sheets, which avoids damage to or destruction of plants caused by use of such sheets in warm climates, and which avoids disadvantages of white washes.
Dwg.0/0

L4 ANSWER 3 OF 9 WPIDS (C) 2002 THOMSON DERWENT

AN 1997-014682 [02] WPIDS
DNN N1997-012612 DNC C1997-004084
TI Synthetic pyrethroid-coated Cruciferae crop seeds - reduces the loss of pyrethroid from seed surface the increasing the yield, useful for e.g. red or white turnip.
DC C07 P11
PA (NISC) NISSAN CHEM IND LTD
CYC 1
PI JP 08280210 A 19961029 (199702)* 10p
ADT JP 08280210 A JP 1995-115228 19950417
PRAI JP 1995-115228 19950417
AB JP 08280210 A UPAB: 19970108
Agrochemical-coated Cruciferae crop seeds, i.e. crop seeds of family Cruciferae are surface coated with synthetic pyrethroids.

Amt. of synthetic pyrethroids to coat the surface of seeds, is 5-25 wt.% of amt. required to control the major **pest insects** to Cruciferae crops. The surface of seed is pref. coated with adhesive resin layers contg. synthetic pyrethroids, and in addn., surfactants and/or inorganic adjuvants. Synthetic pyrethroids used are cypermethrin and/or permethrin. Seeds of crops are those of radish, white turnip or red turnip.

USE/ADVANTAGE - Coated seeds are useful for increasing yield of rhizome of Cruciferae crops, e.g. radish, white turnip, red turnip, etc. Use of adhesive resin contg. synthetic pyrethroids for coating prevents loss of pyrethroids from seed surface, enabling stable and increased yield of rhizome without causing chemical injury on near-b cultivation land or exerting toxicity to fish or other useful organisms.

In an example, radish seeds (8 mesh, or 2.38 mm or over; 40g) were set in a 1-1 container. Coating soln. was prepd. with water (0.5g) and permethrin 20% emulsion (0.6 g), with addn. of liq. coating material (2g) composed colouring matter (0.3%), adhesive resin Movinyl 181E (RTM) (4.0%) and Movinyl 230 (RTM) (2.0%), inorganic adjuvant Iriogin (RTM; **titanium** oxide-coated **mica**) (6.0%), and water (87.7%). Coating soln. was added dropwise in container for 3 minutes. Seeds were then dried at 40 deg. C for 15 minutes while lower half of container was being rotated .Thus, permethrin-coated radish seeds (40.2 g; 3 g permethrin/kg seeds) were obtd.
Dwg.0/0

9/19/02

L4 ANSWER 4 OF 9 WPIDS (C) 2002 THOMSON DERWENT — NO abst. available from CAPLUS WPIDS Japio
AN 1992-321243 [39] WPIDS
TI **Insect** inhibiting film for culturing plants - comprises thermoplastic resin cpd. contg. **mica** pieces coated with **titanium** di oxide (J6 19.5.87).
DC A97 P13 P14
PA (SUMO) SUMITOMO CHEM CO LTD
CYC 1
PI JP 04052736 B 19920824 (199239)* 4p
JP 62107737 A 19870519 (199239)
ADT JP 04052736 B JP 1985-249599 19851106; JP 62107737 A JP 1985-249599 19851106
FDT JP 04052736 B Based on JP 62107737
PRAI JP 1985-249599 19851106

L4 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1991:606611 CAPLUS
DN 115:206611
TI Polyethylene bag for improved packaging of cereal
IN Sano, Motoi
PA Marusho Kasei K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 2 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03162268	A2	19910712	JP 1989-303659	19891122

AB Polyethylene is mixed with scale-type inorg. compds. such as **mica**, oxidized **titanium**, and iron powder for the prepn. of a bag for packaging cereal with improved preservability at lower cost. The bag has smaller holes to prevent the intrusion of **pests**, allows the respiration of the cereal, and reduces the exposure to UV light which degrades the cereal.

L4 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
AN 1990:528073 CAPLUS
DN 113:128073
TI Fungicide-containing packaging bags for grains
IN Sano, Koji; Uno, Hiroshi; Makino, Yoshio; Takahashi, Sadaya
PA Marusho Kasei K. K., Japan; Nippon Oils and Fats Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02057562	A2	19900227	JP 1988-205306	19880818
PRAI	JP 1987-289024		19871116		

AB A packaging bag for grains is prepd. from a thermoplastic resin film, contg. inorg. fillers 0.5-30.0% by wt. and a fungicide 10 ppm-30% by wt., with smaller air-permeating holes than the sizes of the grains and insects. The grains are protected from fungal infestation, and also from insects by the inorg. fillers. Thus, a plastic bag (25 .times. 15 cm) for rice was prepd. from a 80 .mu.m-thick film made of polyethylene contg. 1000 ppm thiabendazole fungicide. The bag had 12 holes (0.5 mm in diam.) for air ventilation.

L4 ANSWER 7 OF 9 WPIDS (C) 2002 THOMSON DERWENT
AN 1989-280838 [39] WPIDS
DNN N1989-214348 DNC C1989-124234
TI **Insect**-proof packaging material for storing cereal, grain etc. - comprises paper or plastic film contg. transparent flakes of **mica**, glass or **titanium mica**.
DC A92 C03 G02 Q34
PA (TKAK) TEIKOKU KAKO CO LTD
CYC 1
PI JP 01203303 A 19890816 (198939)* 3p
ADT JP 01203303 A JP 1988-26446 19880205
PRAI JP 1988-26446 19880205
AB JP 01203303 A UPAB: 19930923
Packaging material of paper or plastic filmis coated with semi-transparent paint contg. paint contg. flaky transparent inorganic powder comprising mica, glass flake and/or **titanium mica**. Plastic film having vent holes with dia. 0.5mm or less and contg. 0.1-20 wt.% of inorganic flake transparent inorganic powder is also claimed.

Plastic film is pref. polyvinyl chloride polyethylene, polypropylene, and polyester. Flaky transparent inorganic powder is e.g. **mica**, glass flake and **titanium mica**,partic. **mica**.

Material can be prepd. by mixing raw material of the plastic film with inorganic powder, or by coating film with inorganic powder contg. paint in amt. of 0.1-20 wt.%, partic. 1-5 wt.% based on the film. The obtd. film may be used to prepare bags etc.

USE/ADVANTAGE - **Insect** proof packaging material is used for the storage of cereals or grains at normal temp. Solid inorganic flaky powder injures the body surface of **insects** and prevents invasion through packaging. In an example, polyethylene test bag contg. 2 wt.% of

mica powder (dia. 10-20 micron and aspect ratio 20) and a control bag contg. no. mica powder were prepd. by conventional method. Both bags has vent holes of 0.5mm dia. Polished rice was packed in the test and control bags stored for three months. No invasion of **insect pests** were found in the test bag, but a number of rice weevils were found in the control bag.
0/0

L4 ANSWER 8 OF 9 WPIDS (C) 2002 THOMSON DERWENT
AN 1988-130440 [19] WPIDS
DNN N1988-099211 DNC C1988-058459
TI Wrapping material for inhibiting harmful **insects** in stored grain - comprises partially photo-permeable plastic film contg. pigment with pearl-like gloss e.g. **titanium mica**.
DC A60 A92 E37 Q34
PA (TKAK) TEIKOKU KAKO CO LTD
CYC 1
PI JP 63074449 A 19880404 (198819)* 3p
JP 07089862 B2 19951004 (199544) 2p
ADT JP 63074449 A JP 1986-221215 19860918; JP 07089862 B2 JP 1986-221215 19860918
FDT JP 07089862 B2 Based on JP 63074449
PRAI JP 1986-221215 19860918
AB JP 63074449 A UPAB: 19930923
Wrapping material for inhibiting generation of harmful **insects** in stored grain, comprises partially photo-permeable plastic film where 0.1 to 20 wt.% of the pigment has a pearl-like gloss, such as **titanium mica**, basic lead carbonate and bismuth, etc..

The plastic includes plasticised polyvinyl chloride, polyethylene, polypropylene, polyester, etc., most pref. polyethylene. The amt. of the pigment is pref. 0.1 - 20 wt.%, more pref. 1 - 5 wt.%. The pigment may be directly kneaded with the plastic material, followed by moulding into a suitable form or shape such as a bag, etc. or the plastic film may be coated with a paint contg. the pigment.

USE/ADVANTAGE - By wrapping various kinds of grains with the material, generation of harmful **insects** can be inhibited during the storage period.
0/0

L4 ANSWER 9 OF 9 WPIDS (C) 2002 THOMSON DERWENT
AN 1985-102088 [17] WPIDS
DNC C1985-044260
TI Powder aerosol compsn. - for application of antiinflammatory, fungicide, insect repellent, etc., contains low b.pt. liq free of hydrophilic gp..
DC A96 A97 B07 C03 G04
PA (KAOS) KAO CORP; (TOAE-N) TOYO AEROSOLE KOGYO
CYC 1
PI JP 60047090 A 19850314 (198517)* 4p
ADT JP 60047090 A JP 1983-154210 19830825
PRAI JP 1983-154210 19830825
AB JP 60047090 A UPAB: 19930925
Compsn. comprises (a) powder; and (b) low b.pt. liq. (I) free of hydrophilic gp. as powder dispersing agent.

(I) is e.g. n-hexane, i-hexane, i-pentane, 2,2-dimethylbutane, 1-hexene, 2-pentene, petroleum ether, trichlorotrifluoroethane, etc. Compsn. may contain aroma and other additives. Compsn. pref. comprises 0.5-15 wt.% powder, 0.5-30 wt.% powder dispersing agent and 99-50 wt.% propellant. Powder is e.g. aluminium, kaoline, talc, aluminium chlorohydroxide, **titanium** oxide, magnesium carbonate, **mica**, starch, polyethylene, magnesium stearate or bentonite, or is powdered drug such as prednisolone, hydrocortisone or their derivs. Propellent is e.g. dichloro difluoromethane, trichloro monofluoromethane, dichloro tetrafluororethane, dimethylether, etc. ActiVe agent is e.g. **insect** repellent, fungicide, antiinflammatory agent, etc.

ADVANTAGE - When the compsn. is formulated as aerosol prod. dispersibility can be maintained for a long period and the compsn. does not block the jetting hole of the aerosol vessel.
0/0

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=> file stnguide
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      82.45      82.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -1.86      -1.86

FILE 'STNGUIDE' ENTERED AT 18:16:51 ON 19 SEP 2002
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 13, 2002 (20020913/UP).

=> d his

     (FILE 'HOME' ENTERED AT 18:08:02 ON 19 SEP 2002)

     FILE 'CAPLUS, WPIDS, CABA, AGRICOLA' ENTERED AT 18:08:33 ON 19 SEP 2002
L1             1 S (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (PEARL LUSTER OR P
L2            11 S (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (TITAN? (3A) MICA)
L3            10 S L2 NOT L1
L4             9 DUP REM L3 (1 DUPLICATE REMOVED)

     FILE 'STNGUIDE' ENTERED AT 18:16:51 ON 19 SEP 2002

=> d que l1; d que l4
L1             1 SEA (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (PEARL LUSTER
                 OR PEARL LUSTRE OR PEARLLUST## OR (PEARLESCENT (3A) PIGMENT#)
                 OR IRIODIN OR MEARLIN OR MAGNAPEARL OR MEARLITE)



L1             1 SEA (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (PEARL LUSTER
                 OR PEARL LUSTRE OR PEARLLUST## OR (PEARLESCENT (3A) PIGMENT#)
                 OR IRIODIN OR MEARLIN OR MAGNAPEARL OR MEARLITE)
L2            11 SEA (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (TITAN? (3A)
                 MICA)
L3            10 SEA L2 NOT L1
L4             9 DUP REM L3 (1 DUPLICATE REMOVED)


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FILE 'CAPLUS' ENTERED AT 18:35:34 ON 19 SEP 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'WPIDS' ENTERED AT 18:35:34 ON 19 SEP 2002
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FILE 'CABA' ENTERED AT 18:35:34 ON 19 SEP 2002
COPYRIGHT (C) 2002 CAB INTERNATIONAL (CABI)

FILE 'AGRICOLA' ENTERED AT 18:35:34 ON 19 SEP 2002

=> s (insect# or pest# or aphid# or thrip#) (l) (titan? (6a) mica)
L7          12 (INSECT# OR PEST# OR APHID# OR THRIP#) (L) (TITAN? (6A) MICA)

=> s l7 not l3
L8           2 L7 NOT L3

=> d 1-2 bib ab

L8   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN   1999:401674  CAPLUS
DN   131:40969
TI   Reflective particles as insect repellents for plants, especially useful
     for repelling virus-vector insects
IN   Sander, Ronen
PA   Merck Patent G.m.b.H., Germany; Limerick Ltd.
SO   PCT Int. Appl., 19 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 9930563         A1   19990624       WO 1998-EP8004   19981209
         W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
             KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
             MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
             TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9922690         A1   19990705       AU 1999-22690    19981209
     EP 1041886         A1   20001011       EP 1998-966268   19981209
         R:  DE, ES, FR, GR, IT, PT
     BR 9813746         A    20001017       BR 1998-13746    19981209
     ZA 9811457         A    19990615       ZA 1998-11457    19981214
PRAI EP 1997-122216     A    19971217
     WO 1998-EP8004     W    19981209
AB   The invention relates to a method for protecting growing plants from
     insects and from insect-transmitted plant viruses, which comprises
     applying to surfaces of plants and their background, a compn. comprising
     reflective particles of at least one substance, provided that this is not
     solely uncoated aluminum.  Suitable reflective particles are TiO2- and/or
     Fe2O3-coated mica, reflective Cu, etc.
RE.CNT  2     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8   ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN   1988:632369  CAPLUS
```

DN 109:232369
TI Transparent insect-repellent packaging materials for grain
IN Iwane, Nobuo; Miyazaki, Toshimasa
PA Teikoku Kako Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63074449	A2	19880404	JP 1986-221215	19860918
	JP 07089862	B4	19951004		

AB Title materials with (partial) transparency comprise polymer films and 0.1-20% pearlescent pigments, e. g. titanized mica, basic Pb carbonate, BiCl3, etc. Polished rice was packaged with 2% TP-690 (titanized mica)-contg. polyethylene film, heat-sealed, and stored at room temp. for 3 mo in summer. No rice weevils (Sitophilus zeamais or Sitophilus oryzae) were obsd., vs. a large no. of rice weevils 1 wk after packaging with a similar film contg. no TP-690.

=>